## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of :

Mitsuaki OSHIMA :

Serial No. NEW : Attn: APPLICATION BRANCH

Filed December 16, 2003 : Attorney Docket No. 2003 1847

COMMUNICATION SYSTEM

(Rule 1.53(b) Divisional of Serial No. 09/741,429, Filed December 21, 2000)

THE COMMISSIONER IS AUTHORIZED TO CHARGE ANY DEFICIENCY IN THE FEES FOR THIS PAPER TO DEPOSIT ACCOUNT NO. 23-0975

## **INFORMATION DISCLOSURE STATEMENT**

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to the provisions of 37 CFR 1.56, 1.97 and 1.98, Applicant requests consideration of [X] the references listed on attached form PTO-1449 and/or [] the additional information identified below in paragraph 3. A legible copy of each reference listed on the form PTO-1449 and each U.S. patent application listed below is enclosed, except a copy is not provided for each reference previously cited by or submitted to the Patent Office in prior parent application Serial No. 09/741,429.

## la. [X] This Information Disclosure Statement is submitted:

within three months of the filing date (or of entry into the National Stage) of the above-entitled application, or

before the mailing of a first Office Action on the merits or the mailing of a first Office Action after the filing of an RCE,

and thus no certification and/or fee is required.

1b. [] This Information Disclosure Statement is submitted

after the events of above paragraph 1a and prior to the mailing date of a final Office Action or a Notice of Allowance or an action which otherwise closes prosecution in the application, and thus:

- (1) [] the certification of paragraph 2 below is provided, or
- (2) [] the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.
- 1c. [] This Information Disclosure Statement is submitted:

after the mailing date of a final Office Action or Notice of Allowance or action which otherwise closes prosecution in the application, and prior to payment of the issue fee, and thus:

the certification of paragraph 2 below is provided, and

the fee of \$180.00 specified in 37 CFR 1.17(p) is enclosed.

- 2. It is hereby certified
  - a. [] that each item of information contained in this Information Disclosure

    Statement was first cited in any communication from a foreign patent office in a

    counterpart foreign application not more than three months prior to the filing of
    the Statement, or
  - b. [] that no item of information contained in the Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the person signing the certification after making reasonable inquiry, was known to any individual designated in §1.56(c) more than three months prior to the filing of the Statement.
- 3. [] Consideration of the following list of additional information (including any copending or abandoned U.S. application, prior uses and/or sales, etc.) is requested.

- 4. For each non-English language reference listed on the attached form PTO-1449, reference is made to: a. [] a full or partial English language translation submitted herewith, b. [] a foreign patent office search report (in the English language) submitted herewith, c. [] the concise explanation contained in the specification of the present application at page, d. [] the concise explanation set forth in the attached English language abstract. e. [X] the concise explanation set forth below or on a separate sheet attached to the reference: JPA H05-218978 corresponds to U.S. Patent, No. 5,243,629 JPA 2-141049 corresponds to U.S. Patent No. 4,940,954 Japanese Patent No. 3-69295 corresponds to U.S. Patent No. 5,128,758 Japanese Patent No. 2-260726 corresponds to U.S. Patent No. 5,038,402
- 5. [X] Foreign patent office search reports citing one or more of the references is enclosed.

EP 0365431 corresponds to U.S. Patent No. 5,311,550

Respectfully submitted,

Mitsuaki OSHIMA

Jeffrey R. Filipek

Registration No. 41,471 Attorney for Applicant

JRF/fs Washington, D.C. 20006-1021 Telephone (202) 721-8200 Facsimile (202) 721-8250 December 16, 2003

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FORM PTO 1449 (modifie		ENT OF COMMER	CF	ATTY DOCKET NO. 2003_1847		SERIAL NEW	NO.				
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А	В	4,630,287	12-16-86	Armstrong		-					
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	AK	63-180280	7-25-88	J	P				abstract		
	AL	64-68144	3-14-89	Jar	pan				abstract		
	АМ	5-218978	8-27-93	Jar	pan					х	
	AN	3-69295	3-25-91	Jar	pan					Х	
	<del>,</del>	ОТ	HER DOCUMENT(	(S) (Including Autho	or, Title, Date, Pertii	nent Pages	, Etc.)				
	AO	Kazuhiko Nitado Conference on (	OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)  Kazuhiko Nitadori, Synthesis of Multichannel Orthogonal VSB Signals by Quadrature Method, 1976 Internati Conference on Communications, June 14-16, 1976, Volume 1, Pages 3-25 - 3-29.							ernational	
	AP	Thomas M. Cove	er, Broadcast (	Channels, IEEE	Transactions	on Inform	nation T	heory, January	/ 1972, Page	es 2-14	
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Sheet 7 of 7	,											
FORM PTO 1449 (1	·	MENT OF COMMER	005	ATTY DOCKET 2003_1847	ATTY DOCKET NO. 2003_1847  SERIAL NO. NEW							
PATE	'DNA TN	TRADEMARK OFFI ES CITED BY APPLIC	ICE	APPLICANT Mitsuaki OSHIMA								
(Use several sheets if necessary )  Date Submitted to PTO: December 16, 2003			FILING DATE December 16	6, 2003			GROUP					
				U.S. PATENT DO	U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NA	ME	CLA	SS	SUBCLASS	FILING APPRO	DATE IF PRIATE		
	AA	5,170,413	12-8-92	Hess	et al.							
	AB											
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		DOCUMENT NUMBER	DATE	coul	NTRY	CLA	ss	SUBCLASS	TRANS YES	LATION NO		
	AD	57-39629	3-4-82	Jap	Japan				abstract			
	AE	58-161547	9-26-83	Japan <sub>.</sub>					abstract			
	AF	63-180222	7-25-88	Japan					abstract			
	AG	92/22162	12-10-92	wo					Х			
	АН	2-94814	4-5-90	Japan					abstract			
	AI	61-70861	4-11-86	Jap	oan				abstract	•		
	AJ	2-218279	8-30-90	Jap	oan				abstract			
	AK	2,095,435	5-10-92	Can	ada				Х			
	AL	91/20137	12-26-91	W	'O				х			
	АМ	2-141049	5-30-90	Jap	oan					х		
	AN	2-195732	8-2-90	Jar	oan				abstract			
	AO	5-167633	7-2-93	Jar	oan				abstract			
	АР	2-260726	10-23-90	Jar	oan					X		
	AQ	58-161427	9-26-83	Jar	oan			_	abstract			
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